

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P954514

Luminaire Tested: **GALN-SB7D-730-U-AFL**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P954514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-730-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 73601 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

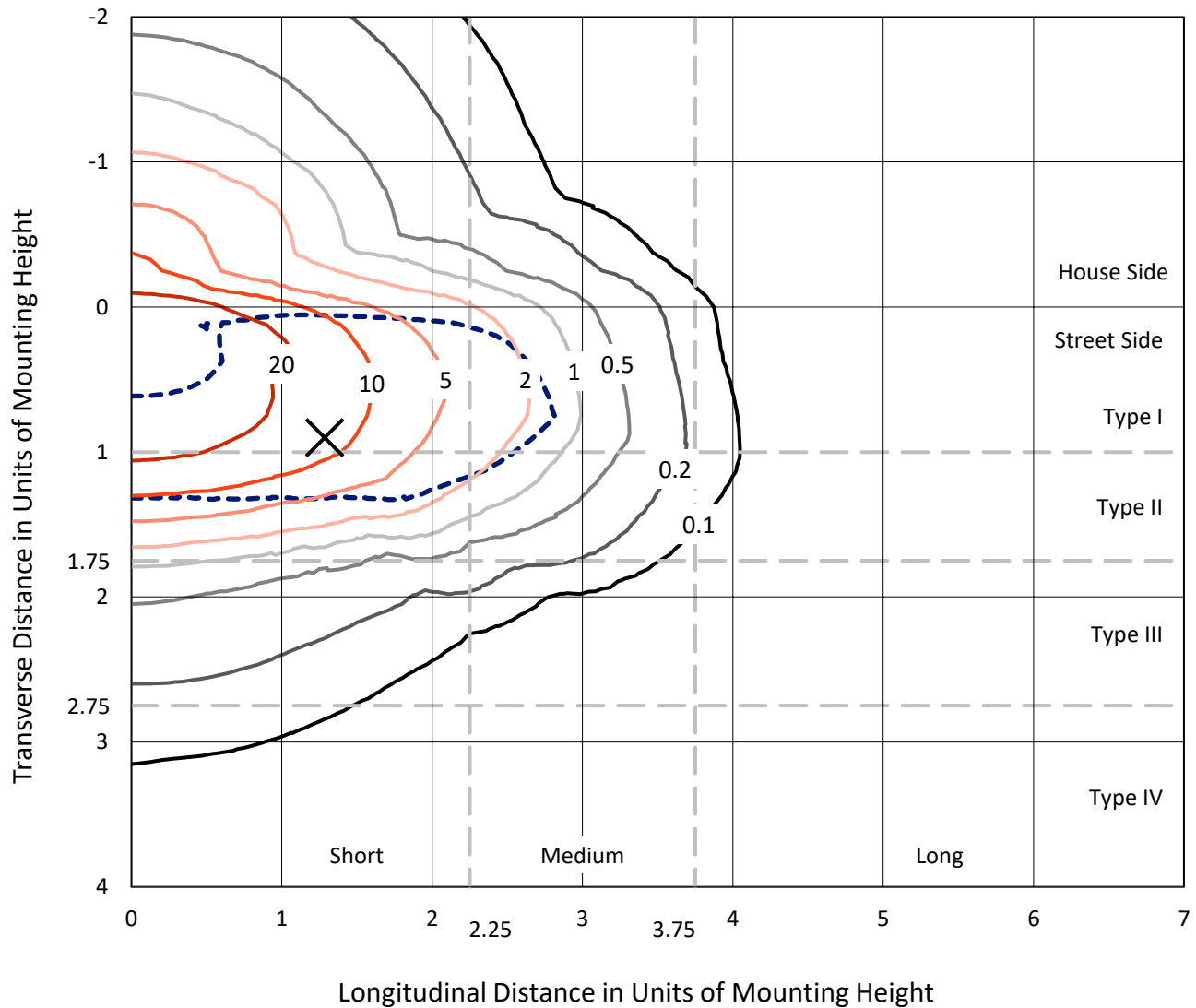


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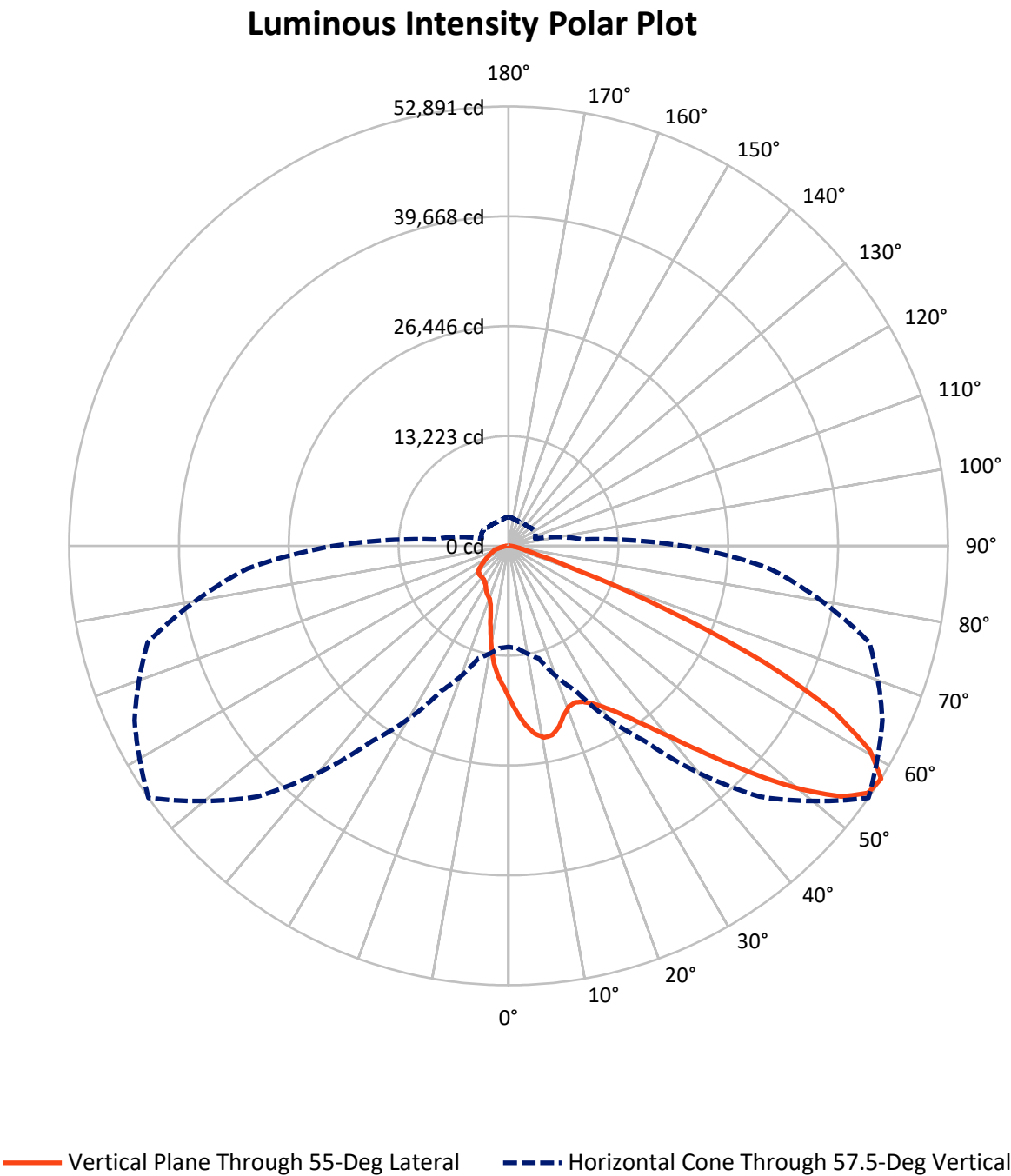
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.7 fc  
Type II - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13317.7  | 0.0    | 13317.7 |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 60283.3  | 0.0    | 60283.3 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 73601.0  | 0.0    | 73601.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1711.3  | 2.3       |
| 10°-20°   | 4319.4  | 5.9       |
| 20°-30°   | 6892.6  | 9.4       |
| 30°-40°   | 10912.7 | 14.8      |
| 40°-50°   | 16702.9 | 22.7      |
| 50°-60°   | 17890.4 | 24.3      |
| 60°-70°   | 11254.9 | 15.3      |
| 70°-80°   | 3328.3  | 4.5       |
| 80°-90°   | 588.5   | 0.8       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 73601.0 | 100.0     |
| 0°-180°   | 73601.0 | 100.0     |

**Coefficient of Utilization**



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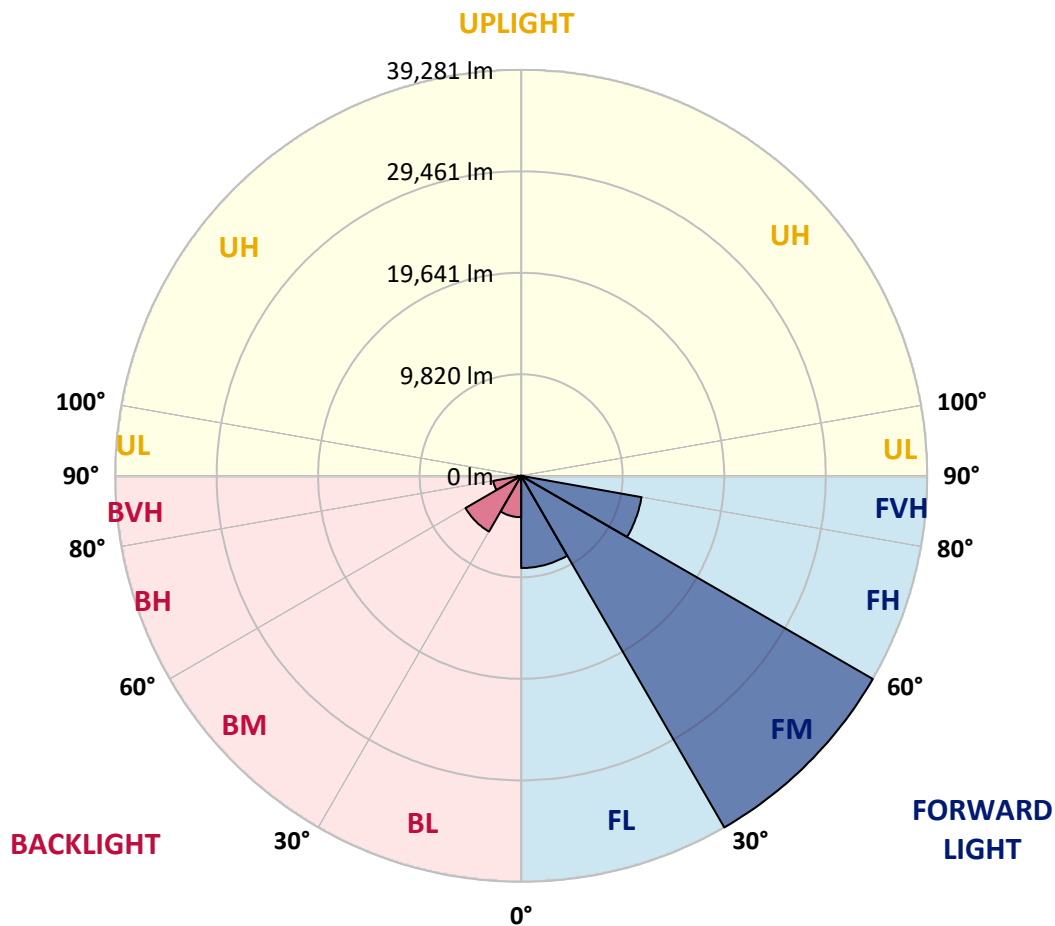
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 8920.4  | 12.1      |                         |      |          |
| FM   | (30°-60°)   | 39281.4 | 53.4      |                         |      |          |
| FH   | (60°-80°)   | 11832.8 | 16.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 248.6   | 0.3       |                         |      | G3/500   |
| BL   | (0°-30°)    | 4002.9  | 5.4       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 6224.6  | 8.5       | B4/8500                 |      |          |
| BH   | (60°-80°)   | 2750.4  | 3.7       | B4/5000                 |      | G4/5000  |
| BVH  | (80°-90°)   | 339.8   | 0.5       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 |
| 2.5°  | 21158.7 | 21143.5 | 21227.2 | 20941.8 | 20747.7 | 20485.2 | 20139.0 | 19697.6 | 19222.0 | 18719.8 | 18502.9 |
| 5°    | 23064.9 | 22931.7 | 23019.2 | 22806.2 | 22593.1 | 22197.4 | 21683.7 | 20964.6 | 20085.7 | 19085.0 | 18552.4 |
| 7.5°  | 22764.3 | 22673.0 | 22897.5 | 23087.7 | 23247.5 | 23198.1 | 22821.4 | 22068.0 | 20934.2 | 19480.7 | 18708.4 |
| 10°   | 20340.6 | 20237.9 | 20553.7 | 21211.9 | 22178.4 | 23019.2 | 23475.8 | 23007.8 | 21801.7 | 19914.5 | 18860.6 |
| 12.5° | 18202.3 | 18152.9 | 18362.1 | 18894.8 | 19967.8 | 21581.0 | 23392.1 | 23829.7 | 22703.4 | 20428.1 | 19066.0 |
| 15°   | 17289.2 | 17228.3 | 17361.4 | 17631.6 | 18316.5 | 19819.4 | 22631.1 | 24392.8 | 23590.0 | 21021.7 | 19393.2 |
| 17.5° | 17087.5 | 17019.0 | 17076.1 | 17216.9 | 17658.2 | 18803.5 | 21482.1 | 24670.5 | 24514.5 | 21683.7 | 19667.2 |
| 20°   | 17460.4 | 17403.3 | 17410.9 | 17403.3 | 17711.5 | 18620.8 | 20683.1 | 24564.0 | 25321.2 | 22292.5 | 19933.5 |
| 22.5° | 18362.1 | 18267.0 | 18270.8 | 18069.1 | 18236.6 | 18940.5 | 20473.8 | 24278.6 | 26040.3 | 22825.2 | 20135.2 |
| 25°   | 19830.8 | 19659.6 | 19693.8 | 19180.2 | 19134.5 | 19655.8 | 20801.0 | 24058.0 | 26755.6 | 23251.3 | 20173.2 |
| 27.5° | 21839.7 | 21645.7 | 21543.0 | 20778.2 | 20412.9 | 20671.7 | 21466.9 | 24134.1 | 27432.8 | 23620.4 | 20078.1 |
| 30°   | 24350.9 | 24115.0 | 23905.8 | 22821.4 | 22159.3 | 22064.2 | 22501.8 | 24636.3 | 28231.9 | 24008.5 | 19914.5 |
| 32.5° | 27429.0 | 27155.1 | 26774.6 | 25336.4 | 24404.2 | 23905.8 | 23841.1 | 25530.4 | 29167.8 | 24503.1 | 19830.8 |
| 35°   | 31093.1 | 30735.4 | 30195.1 | 28334.6 | 27155.1 | 26135.4 | 25606.5 | 26820.3 | 30450.1 | 25248.9 | 19925.9 |
| 37.5° | 34867.5 | 34464.2 | 33969.5 | 31755.1 | 30305.5 | 28802.6 | 27760.1 | 28570.5 | 32158.4 | 26261.0 | 20177.0 |
| 40°   | 38348.9 | 37896.1 | 37435.7 | 35464.8 | 33908.7 | 32097.6 | 30396.8 | 30784.9 | 34247.3 | 27470.9 | 20603.2 |
| 42.5° | 40403.5 | 40068.7 | 39893.7 | 38828.3 | 37626.0 | 35788.3 | 33676.6 | 33410.2 | 36594.9 | 28863.5 | 21090.2 |
| 45°   | 40312.2 | 40175.2 | 40715.5 | 41156.9 | 40871.5 | 39851.8 | 37519.5 | 36313.3 | 38950.1 | 30069.6 | 21539.2 |
| 47.5° | 38158.7 | 38250.0 | 39456.1 | 41936.9 | 43028.8 | 43561.5 | 41895.0 | 39163.1 | 40997.1 | 30971.3 | 21740.8 |
| 50°   | 32299.2 | 32375.3 | 35168.1 | 40517.7 | 43584.4 | 46586.4 | 46236.3 | 41944.5 | 42583.7 | 31523.0 | 21695.2 |
| 52.5° | 27661.1 | 27710.6 | 28909.1 | 36309.5 | 41750.4 | 48108.3 | 50147.7 | 44566.0 | 43744.2 | 31675.2 | 21440.2 |
| 55°   | 20835.3 | 21006.5 | 22349.6 | 28486.8 | 36979.2 | 46902.2 | 52529.5 | 47267.4 | 44478.5 | 31690.4 | 21173.9 |
| 57.5° | 12171.7 | 12358.1 | 14017.0 | 19336.2 | 28741.7 | 42697.8 | 52891.0 | 49664.5 | 44976.9 | 31568.7 | 21014.1 |
| 60°   | 5962.2  | 6042.1  | 6765.0  | 10162.7 | 17722.9 | 34597.3 | 49984.1 | 50824.9 | 45254.7 | 31504.0 | 21006.5 |
| 62.5° | 4017.9  | 4006.5  | 4036.9  | 5014.8  | 8732.1  | 22227.8 | 43926.8 | 48793.2 | 45106.3 | 31256.7 | 20930.4 |
| 65°   | 3454.8  | 3412.9  | 3298.8  | 3519.5  | 4523.9  | 10166.5 | 33939.1 | 42728.3 | 43976.3 | 30636.5 | 20409.1 |
| 67.5° | 2986.8  | 2990.6  | 2994.4  | 2925.9  | 3230.3  | 4691.4  | 20740.1 | 33657.5 | 39920.3 | 27699.2 | 18400.2 |
| 70°   | 2473.1  | 2507.4  | 2522.6  | 2522.6  | 2632.9  | 3078.1  | 8853.8  | 23068.7 | 31488.8 | 21718.0 | 14819.8 |
| 72.5° | 2252.5  | 2180.2  | 2187.8  | 2149.7  | 2149.7  | 2343.8  | 3565.1  | 13077.2 | 19838.4 | 12217.3 | 9044.1  |
| 75°   | 1837.7  | 1883.4  | 1891.0  | 1864.4  | 1776.9  | 1788.3  | 2115.5  | 5486.6  | 8488.6  | 5068.0  | 4470.7  |
| 77.5° | 1586.6  | 1586.6  | 1601.8  | 1582.8  | 1514.3  | 1339.3  | 1411.6  | 2126.9  | 2887.9  | 2077.4  | 2233.4  |
| 80°   | 1274.6  | 1270.8  | 1335.5  | 1373.5  | 1267.0  | 989.3   | 901.7   | 1175.7  | 1282.2  | 913.2   | 1160.5  |
| 82.5° | 620.2   | 658.2   | 917.0   | 1046.3  | 962.6   | 715.3   | 551.7   | 730.5   | 684.9   | 403.3   | 521.3   |
| 85°   | 361.5   | 342.4   | 410.9   | 582.1   | 551.7   | 395.7   | 266.3   | 380.5   | 357.7   | 205.5   | 209.3   |
| 87.5° | 114.1   | 106.5   | 83.7    | 197.9   | 159.8   | 110.3   | 72.3    | 110.3   | 98.9    | 45.7    | 45.7    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 | 18442.0 |
| 2.5°  | 18232.8 | 17783.8 | 17338.6 | 16931.5 | 16684.2 | 16524.4 | 16364.6 | 16185.8 | 16117.3 | 16014.5 |
| 5°    | 18050.1 | 17182.6 | 16410.2 | 15744.4 | 15139.4 | 14663.8 | 14184.4 | 13796.3 | 13621.3 | 13739.2 |
| 7.5°  | 17943.6 | 16688.0 | 15497.1 | 14275.7 | 13100.0 | 12160.2 | 11342.2 | 10767.7 | 10508.9 | 10573.6 |
| 10°   | 17848.5 | 16128.7 | 14313.8 | 12384.7 | 10695.4 | 9531.1  | 8694.0  | 8256.5  | 8092.9  | 8127.1  |
| 12.5° | 17761.0 | 15500.9 | 12887.0 | 10349.1 | 8553.3  | 7784.7  | 7545.0  | 7548.8  | 7579.2  | 7602.1  |
| 15°   | 17745.7 | 14743.7 | 11292.7 | 8568.5  | 7396.6  | 7347.1  | 7605.9  | 7769.5  | 7857.0  | 7883.6  |
| 17.5° | 17722.9 | 13838.2 | 9668.1  | 7354.7  | 7115.0  | 7449.9  | 7689.6  | 7796.1  | 7864.6  | 7868.4  |
| 20°   | 17631.6 | 12689.1 | 8169.0  | 6776.4  | 7054.2  | 7343.3  | 7491.7  | 7575.4  | 7632.5  | 7651.5  |
| 22.5° | 17350.0 | 11410.7 | 7000.9  | 6517.7  | 6810.6  | 7042.7  | 7217.8  | 7312.9  | 7347.1  | 7370.0  |
| 25°   | 16844.0 | 9980.1  | 6194.3  | 6270.4  | 6472.0  | 6765.0  | 6905.8  | 6924.8  | 6913.4  | 6947.6  |
| 27.5° | 16182.0 | 8446.7  | 5692.0  | 5935.5  | 6194.3  | 6445.4  | 6521.5  | 6510.1  | 6487.2  | 6525.3  |
| 30°   | 15382.9 | 7069.4  | 5372.4  | 5558.9  | 5912.7  | 6141.0  | 6209.5  | 6182.9  | 6137.2  | 6179.0  |
| 32.5° | 14538.3 | 5943.1  | 5109.9  | 5296.3  | 5680.6  | 5905.1  | 5973.6  | 5947.0  | 5912.7  | 5947.0  |
| 35°   | 13750.7 | 5155.5  | 4866.4  | 5121.3  | 5498.0  | 5718.7  | 5806.2  | 5810.0  | 5810.0  | 5851.8  |
| 37.5° | 13027.7 | 4695.2  | 4664.7  | 5011.0  | 5372.4  | 5570.3  | 5695.8  | 5703.4  | 5539.8  | 5551.3  |
| 40°   | 12358.1 | 4501.1  | 4573.4  | 4938.7  | 5250.7  | 5440.9  | 5448.5  | 5022.4  | 4721.8  | 4714.2  |
| 42.5° | 11810.2 | 4463.1  | 4600.0  | 4931.1  | 5163.2  | 5170.8  | 4634.3  | 4303.3  | 4219.6  | 4223.4  |
| 45°   | 11296.5 | 4451.7  | 4660.9  | 4931.1  | 5033.8  | 4466.9  | 4105.4  | 4017.9  | 4025.5  | 4056.0  |
| 47.5° | 10722.0 | 4406.0  | 4672.3  | 4862.6  | 4660.9  | 3972.2  | 3865.7  | 3827.7  | 3812.4  | 3820.1  |
| 50°   | 10094.2 | 4242.4  | 4527.8  | 4725.6  | 4021.7  | 3759.2  | 3626.0  | 3614.6  | 3633.6  | 3645.0  |
| 52.5° | 9432.2  | 3976.0  | 4280.4  | 4478.3  | 3728.7  | 3572.7  | 3424.3  | 3451.0  | 3534.7  | 3561.3  |
| 55°   | 8998.4  | 3664.1  | 3953.2  | 3983.7  | 3523.3  | 3397.7  | 3272.2  | 3333.0  | 3489.0  | 3538.5  |
| 57.5° | 8884.3  | 3333.0  | 3580.3  | 3546.1  | 3260.7  | 3245.5  | 3169.4  | 3222.7  | 3420.5  | 3492.8  |
| 60°   | 8850.0  | 3036.3  | 3215.1  | 3188.4  | 3005.8  | 3078.1  | 3059.1  | 3085.7  | 3154.2  | 3177.0  |
| 62.5° | 8583.7  | 2800.4  | 2887.9  | 2849.8  | 2777.5  | 2903.1  | 2948.7  | 2891.7  | 2944.9  | 2971.6  |
| 65°   | 7906.4  | 2610.1  | 2568.3  | 2541.6  | 2572.1  | 2686.2  | 2777.5  | 2663.4  | 2712.8  | 2788.9  |
| 67.5° | 6787.8  | 2351.4  | 2237.2  | 2267.7  | 2362.8  | 2423.7  | 2541.6  | 2412.3  | 2454.1  | 2583.5  |
| 70°   | 5490.4  | 2024.2  | 1921.4  | 2009.0  | 2100.3  | 2225.8  | 2244.9  | 2157.3  | 2256.3  | 2400.8  |
| 72.5° | 3884.7  | 1693.2  | 1620.9  | 1799.7  | 1830.1  | 1993.7  | 1951.9  | 1910.0  | 2047.0  | 2096.5  |
| 75°   | 2693.8  | 1365.9  | 1324.1  | 1461.1  | 1571.4  | 1712.2  | 1681.7  | 1731.2  | 2020.4  | 2043.2  |
| 77.5° | 1704.6  | 1061.5  | 1034.9  | 1122.4  | 1274.6  | 1430.6  | 1480.1  | 2043.2  | 3451.0  | 3588.0  |
| 80°   | 989.3   | 791.4   | 761.0   | 829.5   | 962.6   | 1107.2  | 1426.8  | 2507.4  | 2275.3  | 2248.7  |
| 82.5° | 551.7   | 544.1   | 506.0   | 525.1   | 643.0   | 799.0   | 2016.6  | 1765.4  | 1434.4  | 1480.1  |
| 85°   | 258.7   | 319.6   | 273.9   | 262.5   | 361.5   | 936.0   | 1346.9  | 1008.3  | 669.7   | 654.4   |
| 87.5° | 68.5    | 60.9    | 60.9    | 68.5    | 152.2   | 806.6   | 536.5   | 429.9   | 254.9   | 247.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)